

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
29 July 2004 (29.07.2004)

PCT

(10) International Publication Number  
WO 2004/062793 A1

(51) International Patent Classification<sup>7</sup>: B01J 19/12, C10L 5/00, F23G 5/00, H05B 6/80, H05H 1/46

CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(21) International Application Number:  
PCT/NZ2003/000276

(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(22) International Filing Date:  
16 December 2003 (16.12.2003)

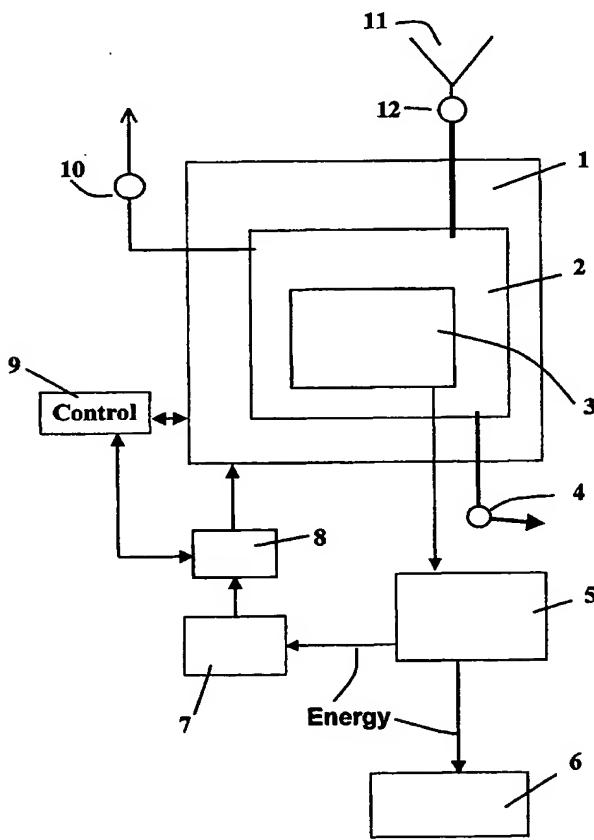
Declarations under Rule 4.17:

(25) Filing Language: English  
(26) Publication Language: English  
(30) Priority Data:  
523665 15 January 2003 (15.01.2003) NZ

- as to the identity of the inventor (Rule 4.17(i)) for all designations
- as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for all designations

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(54) Title: METHOD AND APPARATUS USING MICROWAVE ENERGY



(57) Abstract: The process generates energy from organic material utilizing microwaves. The waste from food item is dried and further heated under temperature control to convert it into a renewable source of energy. Enclosed in a glass chamber (2) it is then exposed to microwave energy. Apparatus comprises a microwave oven (1), a heat exchanger (3) and energy extraction systems (5) and (6). The microwave absorption creates an ionized hot air atmosphere of high-energy Plasma. This new process for hot plasma generates heat, pressure and electromotive energy, which can be converted by a heat exchanger; a microwave ignited internal-combustion engine or a Magneto-Hydrodynamic (MHD) system, to the useful form of mechanical or electrical energy. The process incorporates a method for plasma confinement to harness its energy. Suitable feedback-control (7) makes the process self-sustaining with net gain in the output energy. Energy efficiency of the process measures the nutritional value of food item used.



- *as to the applicant's entitlement to claim the priority of the earlier application (Rule 4.17(iii)) for all designations of inventorship (Rule 4.17(iv)) for US only*

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**Published:**

- *with international search report*